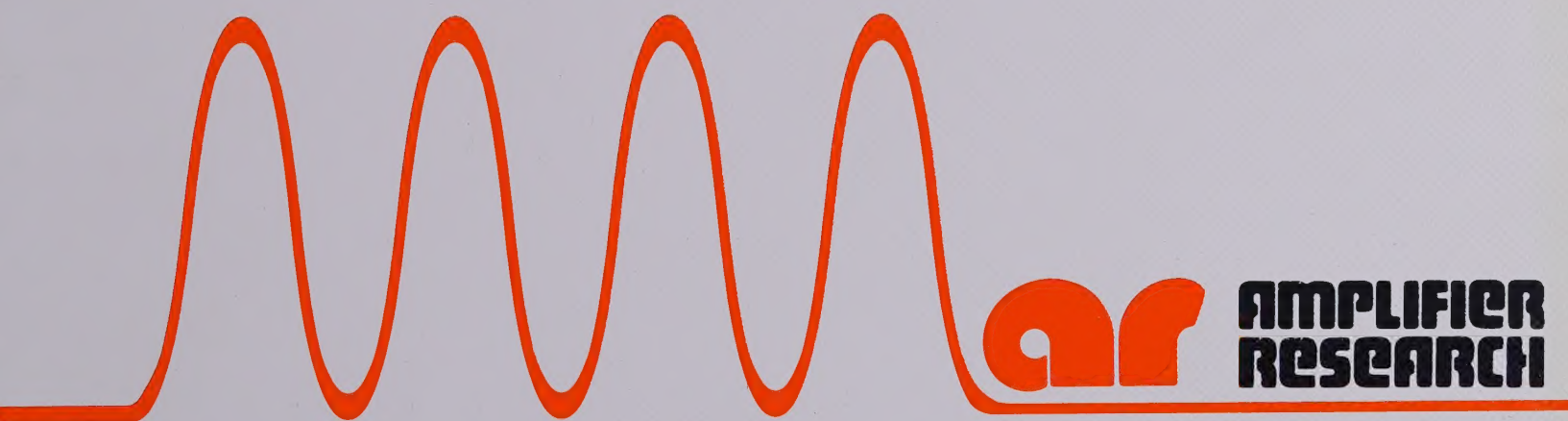




**AMPLIFIER
RESEARCH**

Operating and Service Manual

MODEL

DC3002

PART NUMBER

1008204-501

SERIAL NUMBER

26072



**AMPLIFIER
RESEARCH**

Souderton, PA 18964-9990 USA

TEL 215-723-8181 TWX 510-661-6094 FAX 215-723-6688

OPERATING INSTRUCTIONS

MODEL DC3002

WARNING

**DO NOT EXCEED MAXIMUM POWER RATING.
DO NOT DROP. INTERNAL COMPONENTS ARE FRAGILE.**

Operation of the Model DC3002 is quite simple. The input signal is fed into the jack (J1) marked Input and the output is taken from the Jack (J2) marked Output. The input and output connectors on the unit are Type N (Female).

Forward coupled output is taken from Jack (J3) marked FWD, and REVERSE coupled output is taken from Jack (J4) marked REV. Both coupled output jacks on the unit are Type SMA (Female).

See Specification Sheet for detailed specifications.



160 School House Road, Souderton, PA 18964-9990 USA
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MODEL DC3002
DUAL DIRECTIONAL COUPLER
120 WATTS CW
100kHz - 1000MHz

The Model DC3002 is a high power ultra-broadband dual directional coupler with excellent performance characteristics over a range of more than 14 octaves. This dual directional coupler is a convenient means of simultaneously monitoring forward and reflected power in RF power systems using normal laboratory oscilloscopes, voltmeters, power meters and spectrum analyzers. The Model DC3002 is particularly recommended for use with our "W" Series amplifiers.

A leveled power output can be obtained from any of these amplifiers by using the coupled forward power output in conjunction with a suitable detector or power meter and our Model 888 leveling amplifier.

SPECIFICATIONS
DC3002

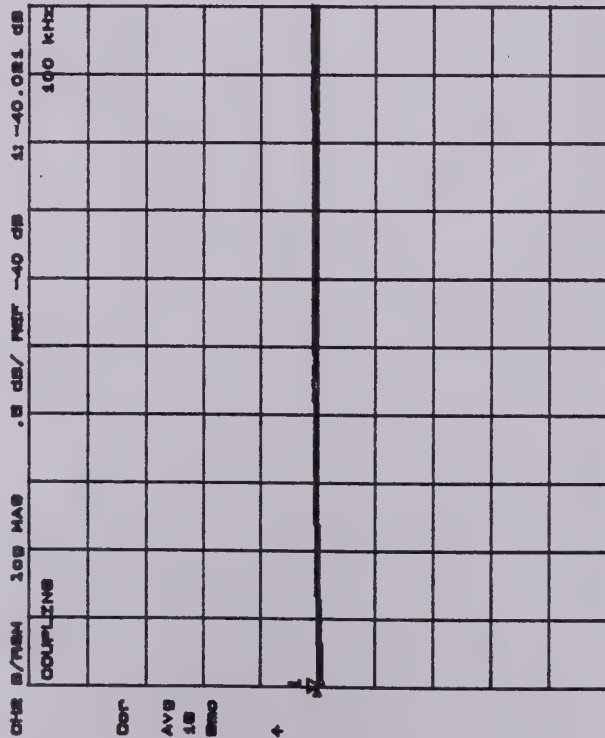
<i>FREQUENCY RANGE</i>	<i>100kHz - 1000MHz</i>
<i>POWER (maximum)</i>	<i>120 watts CW</i> <i>1200 watts peak</i>
<i>COUPLING FACTOR</i>	<i>40 ± 0.8dB (includes flatness)</i>
<i>COUPLING FLATNESS</i>	<i>± 0.6dB</i>
<i>DIRECTIVITY</i>	<i>25dB typical</i> <i>20dB minimum</i>
<i>INSERTION LOSS (maximum)</i>	<i>0.65dB</i>
<i>IMPEDANCE main line)</i>	<i>50 ohms, VSWR 1.3:1 maximum</i>
<i>CONNECTORS</i>	
<i>Mainline</i>	<i>Type N Female</i>
<i>Coupled</i>	<i>Type SMA Female</i>
<i>WEIGHT (maximum)</i>	<i>0.7 kg. (1.5 lb.)</i>
<i>SIZE (maximum) (W x H x D)</i>	<i>13.2 x 6.8 x 4.1 cm</i> <i>5.2 x 2.7 x 1.6 in</i>

WARRANTIES: LIMITATION OF LIABILITY

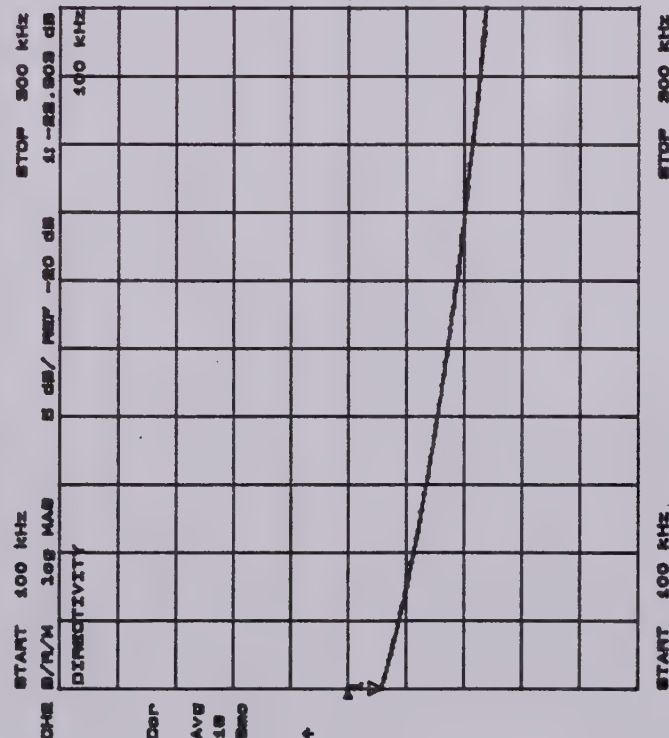
Seller warrants (i) that seller has title to the goods sold and (ii) that Amplifiers, Antennas, Test Cells, Directional Couplers and Tripods will be free from defects in material and workmanship for a period of three (3) years from date of shipment shown on Amplifier Research invoice. Field Monitoring Equipment and Interference Generators will be free from defects in material and workmanship for a period of two (2) years from date of shipment. Vacuum tubes, traveling-wave tubes and other products will be free from defects in material and workmanship for a period of one (1) year. Seller's sole responsibility in fulfilling these warranties shall be to repair or replace any goods which do not conform to the foregoing warranties or, at seller's option, to give buyer credit for defective goods. The warranty is valid only when used in the country specified at time of order. Warranty service must be obtained from the repair facility designated at that time. If warranty service is not available in the country where the equipment is to be used then it must be returned to Amplifier Research. Warranty service will be provided only for defective goods which are returned within the warranty period, freight costs prepaid to Amplifier Research or its designated repair facility.

There are no other warranties, express or implied, including any warranty of merchantability or fitness. Seller shall not be responsible for any incidental or consequential damages arising from any breach of warranty.

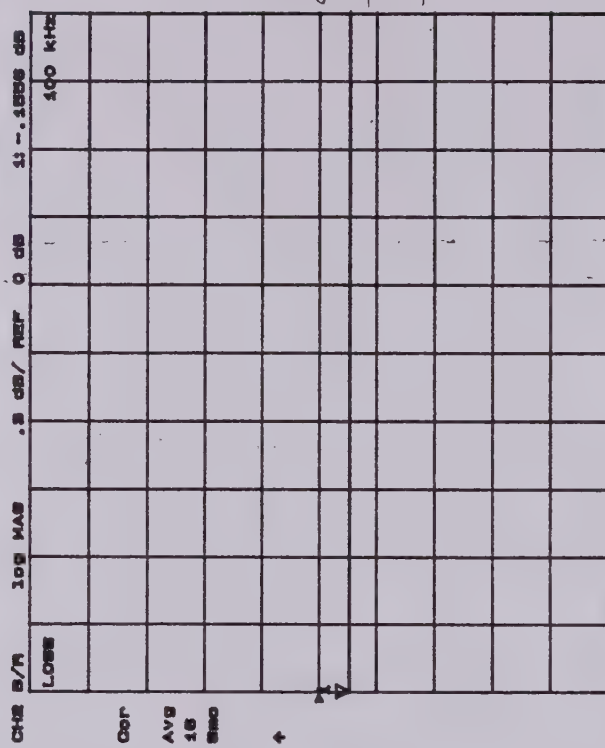
No person other than an officer of Amplifier Research Corporation, has any authority to bind seller to any affirmation, representation or warranty except as specifically included in the preceding terms and conditions.



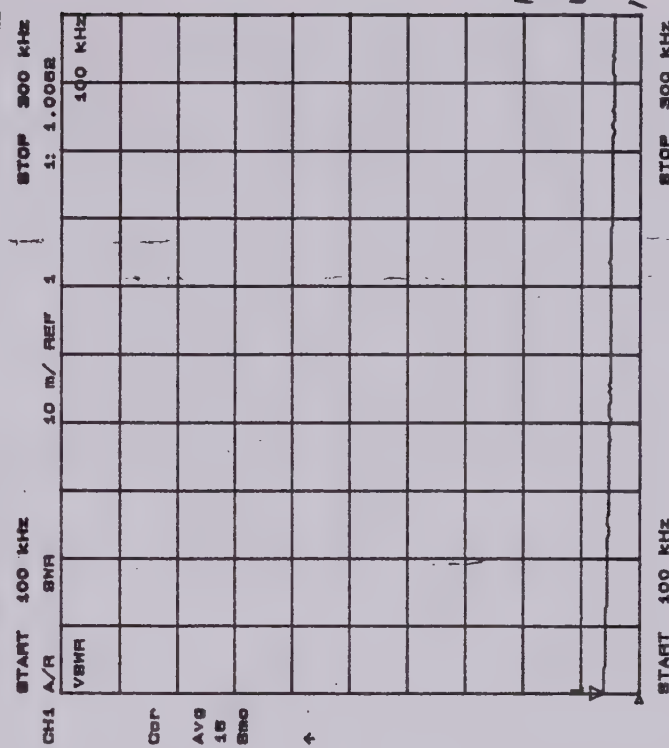
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-40.0°C
-40.5°C



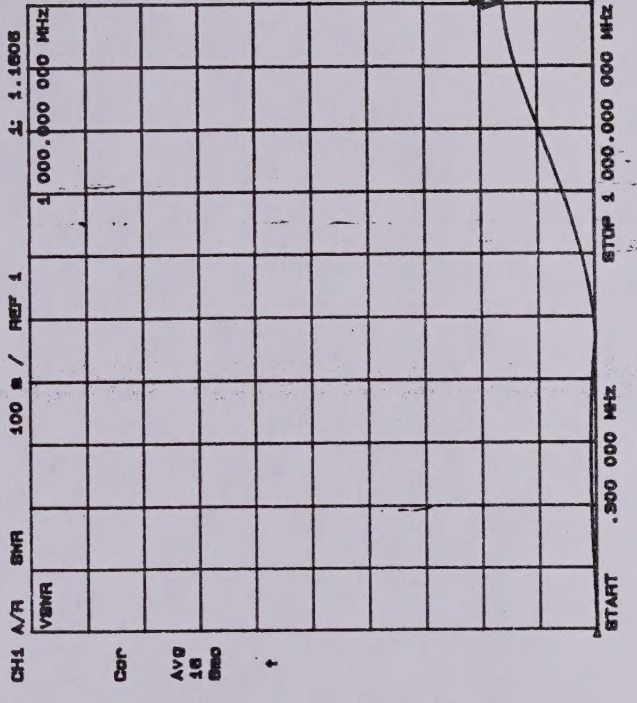
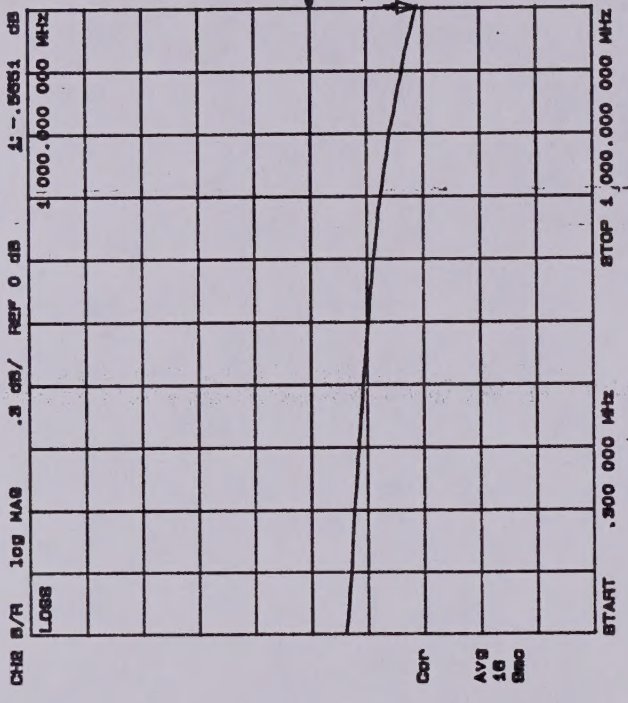
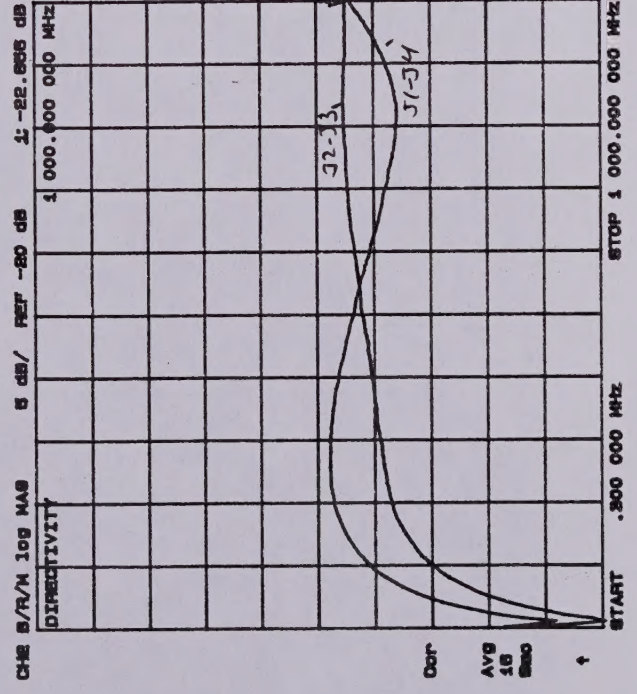
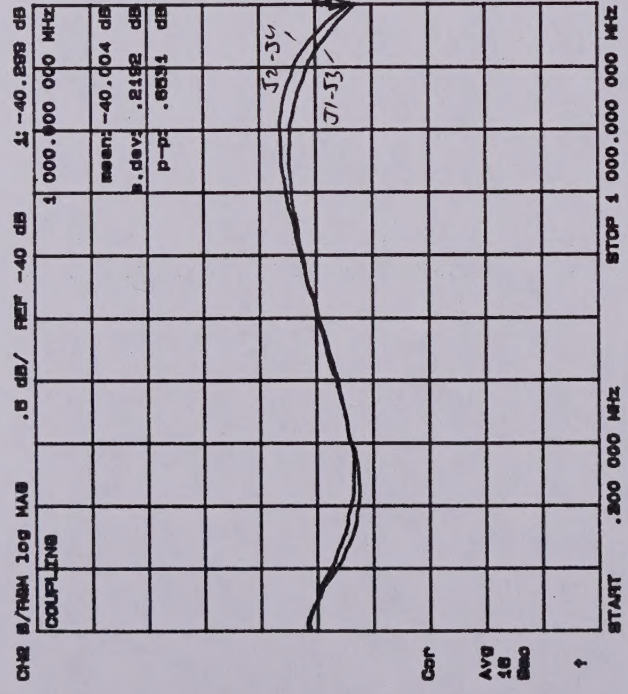
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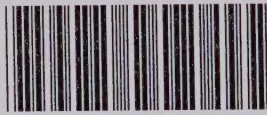
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